

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX111918\  
 Data File : VX006103.D  
 Acq On : 19 Nov 2018 20:33  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 20 01:19:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X110718W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 117   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 35.479  | 29.0# | 81    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 36.266  | 27.5# | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 35.004  | 30.0# | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 40.369  | 19.3  | 95    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 43.124  | 13.8  | 101   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 38.402  | 23.2# | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.036  | 7.9   | 111   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 42.922  | 14.2  | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 46.113  | 7.8   | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.810 | 17.3  | 100   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 41.326  | 17.3# | 98    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 208.315 | 16.7  | 100   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 40.317  | 19.4  | 93    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 228.552 | 8.6   | 104   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 212.205 | 15.1  | 98    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 32.851  | 34.3# | 75    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.820  | 2.4   | 110   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.831  | 6.3   | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 42.868  | 14.3  | 105   | 0.01     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 42.372  | 15.3  | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.112  | 11.8  | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 203.677 | 18.5  | 93    | -0.01    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 43.469  | 13.1  | 104   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 221.730 | 11.3  | 99    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 39.622  | 20.8# | 90    | 0.01     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.140  | 5.7   | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.967  | 0.1   | 104   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 225.659 | 9.7   | 98    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 43.823  | 12.4# | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 39.727  | 20.5# | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 41.752  | 16.5  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.374  | 15.3  | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 124   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 42.740  | 14.5  | 102   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 40.240  | 19.5  | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 40.670  | 18.7  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 35.794  | 28.4# | 87    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 37.103  | 25.8# | 87    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 40.463  | 19.1  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 43.604  | 12.8  | 104   | 0.01     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 39.730  | 20.5# | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 41.396  | 17.2  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 44.876  | 10.2  | 111   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 40.845  | 18.3# | 102   | 0.00     |

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 Quant Title : SW846 8260  
 QLast Update : Wed Nov 07 14:40:53 2018  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 40.756  | 18.5  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 40.594  | 18.8  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 41.481  | 17.0  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 825.045 | 17.5  | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 41.352  | 17.3  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 207.281 | 17.1  | 102   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 39.651  | 20.7# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 38.187  | 23.6# | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 41.030  | 17.9  | 99    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 38.041  | 23.9# | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 38.597  | 22.8# | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 37.901  | 24.2# | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 208.843 | 16.5  | 106   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 185.021 | 26.0# | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 34.812  | 30.4# | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 35.618  | 28.8# | 87    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 44.235  | 11.5  | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 41.569  | 16.9  | 78    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.305  | 7.4   | 91    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 46.639  | 6.7   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.016  | 2.0#  | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.121  | 0.9   | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.720  | -7.4  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 55.446  | -10.9 | 106   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.556  | 2.9   | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 114   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.987  | 0.0   | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 41.380  | 17.2  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.502  | 5.0   | 108   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.590  | 4.8   | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.041  | 5.9   | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.839  | 2.3   | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.830  | 4.3   | 104   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.726  | 0.5   | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.982  | 8.0   | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.954  | 4.1   | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.881  | 2.2   | 107   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.053  | 5.9   | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.624  | 2.8   | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.892  | 0.2   | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.031  | 7.9   | 107   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.800  | 8.4   | 107   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.011  | 4.0   | 104   | 0.00     |

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Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 42.963 | 14.1 | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.219 | 7.6  | 107   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.930 | 8.1  | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.009 | -2.0 | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.481 | 9.0  | 103   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.730 | 2.5  | 111   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.904 | -1.8 | 110   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6